Joint Unmanned Systems Common Control (JUSCC) ACTD

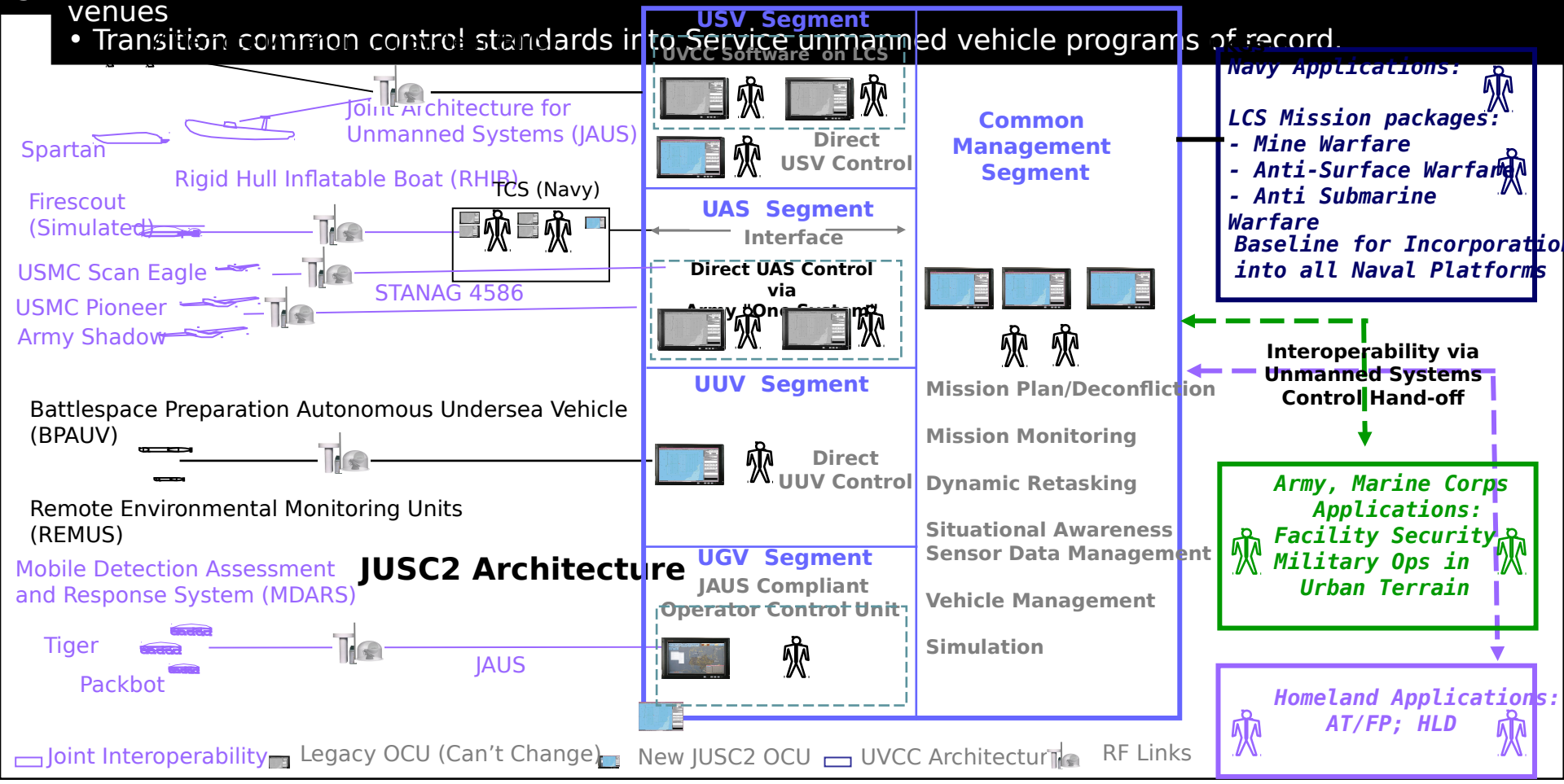
Transition Strategy

#2

Joint Unmanned Systems Common Control (JUSCC)

GOALS

- Demonstrate capability to concurrently manage multiple unmanned systems (air, sea surface, undersea, and ground)
- Incorporate Joint messaging standards (JAUS, STANAG 4586)
- Develop an unmanned vehicle common control (UVCC) server architecture and assess in Service / Joint venues
- Transition common control standards into Service unmanned vehicle programs of record.



Joint Capabilities

- Joint Interface Standards for common control of DoD UVs
- Processing architecture to manage large numbers of UVs & data

Hardware / Software

- UVCC test bed (control van)
- JUSC2 system (software) integrated into:
  - Littoral Combat Ship (Navy)
  - 'One' control system (Army)

JUSCC Transition Strategy Input

DAU Transition Manager's Coun

- **Transition to Single Service Program of Record**
  - *Hardware/software to Littoral Combat Ship (LCS) Mission Module 0*
  - *Support CDD for LCS or new CDD*
  - *If new, Joint Staff KMDS Review*
  - *Risk: If LCS MM0 slips, if support for JUSCC wanes, capability will be lost to*

    joint community.
- **Transition to Joint Programs**
  - *Capability to Joint community*
    - Standing Joint Force Headquarters (USJFCOM) - UAS, UGV, UUV, USV
    - Distributed Common Ground System (DCGS) - UAS
    - Deployable Joint Command and Control (DJC2) - UAS, UGV
    - EUCOM Planning and Operations Center (EPOC) - all UV's, as above
    - Other Service(s) configurations
  - *CDD/CPD Annex to cover other configurations or separate CDD/CPD*
    - Support Milestone B/C Decision (LRIP, FRP)
  - *Rationale: ensures we field, or we may field sooner, and field to wider audience*

JUSCC Transition Strategy Input

- **Transition Deliverable: Standards Agreements**
  - *STANAG 4586 for Unmanned Aerial Systems*
    - Report to UAS COE - Strategic Roadmap
    - Report to FCB (C2, NC, BA, FA)
    - Document Agreements with Industry (build to, equip/execute later strategy)
    - TCP Recommendations: All UAS build to when Service decisions pending
      - Build and they will come

    AO: XM with OM/TM support, JFCOM J8, Joint Staff (TCP action)
  - *Joint Architecture Unmanned Systems (JAUS 3.X) - UGV, UUV, USV*
    - Formalize agreements between USAF/USA regarding UGVs
    - Formalize agreements between USN and USA regarding UUV, USV, UGV
    - USMC ? Covered by Navy or Army?

    AO: XM with OM/TM support, JFCOM J8, Joint Staff (TCP action)

JUSCC Transition Strategy Input

DAU Transition Manager's Coun

- **Follow-on Prototype within USJFCOM**
  - *Continue with integration work (other target unmanned systems)*
- **Pre-Planned Product Improvement**
  - *Baseline configuration*
  - *System 2.X enhancements*
  - *Policy advancements to exploit capability*
- **CONOPS, TT&P and Doctrine**

JUSCC Transition Strategy Input

How do You Fund This?

- **Unfunded Requirement through DUSD (AS&C)**
  - *ACTD specific transition needs: EUE, residual fielding.*
- **Technology Transition Initiative (DUSD-AS&C)**

JUSCC Transition Strategy Input

How do You Fund This?

- *To advance fielding opportunities for joint application*
- *$10M R&D, $50M for acquisition for each project*
- *Need Operational Need Statement from a COCOM*
- *Commitment for follow-on POM (Joint program, other Title X)*

- **USJFCOM Office of Prototype Oversight**
  - *Support follow-on prototype to build objective joint system.*
  - *Funding is limited: COCOM Initiative Funds (CIF), J9 JEXP, other sources*
  - *Partnership with other organizations, similar to*

Other Transition Funding Sources

- ✓ *ManTech Program*

https://www.dodmantech.com

- ✓*Technology Transition Initiative*

www.acq.osd.mil/ott/tti

- ✓ *USA Spiral Program*
- ✓ *USA Rapid Equipping Force*

www.mil.tradoc.army

The Program addresses production issues from system development through transition to production and sustainment. By identifying production issues early and providing timely solutions, the ManTech Program reduces risk and positively impacts system affordability by providing solutions to manufacturing problems before they occur.